

ABSTRACT

There is provided a member for a semiconductor device, such as a substrate, having an excellent resin bonding property capable of improving resin bonding strength at the time the member for a semiconductor device being bonded with resin and maintaining a high resin bonding strength even after various reliability tests, such as a thermal cycling test, are performed.

The member for a semiconductor device comprises a base member 1 made of an alloy or composite mainly composed of Cu and W and/or Mo, an alloy or composite mainly composed of Al-SiC, or an alloy or composite mainly composed of Si-SiC. A coating layer made of a hard carbon film 2 is provided on at least a surface of the base member 1 on which at least another member for the semiconductor device, such as a package, is bonded with a resin. It is preferable that the base member 1 have a surface roughness of 0.1 to 20 μm in Rmax. It is preferable that the hard carbon film 2 have a thickness of 0.1 to 10 μm .